

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,541		10/18/2004	Makoto Koshimizu	XA-10191	6425
181	7590	01/26/2006		EXAMINER	
		BRIDGE PC	LEE, KYOUNG		
1751 PINNA SUITE 500	CLE DR	IIVE	ART UNIT	PAPER NUMBER	
MCLEAN,	VA 221	02-3833		2812	
				DATE MAILED: 01/26/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/511,541	KOSHIMIZU ET AL.	
Office Action Summary	Examiner	Art Unit	
	Kyoung Lee	2812	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re- tod will apply and will expire SIX (6) MON tute, cause the application to become AB	CATION.  eply be timely filed  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 10	<u>)/18/2004</u> .		
2a) This action is <b>FINAL</b> . 2b) T	his action is non-final.		
3) Since this application is in condition for allow	· ·		
closed in accordance with the practice unde	r <i>Ex par</i> te <i>Quayle</i> , 1935 C.D	, 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-44</u> is/are pending in the applicati	on.		
4a) Of the above claim(s) is/are withd	rawn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) <u>1-44</u> are subject to restriction and/o	or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	iner. ·	·	
10) The drawing(s) filed on is/are: a) a	ccepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to t	he drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corr	· -	•	
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.	•
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for forei	gn priority under 35 U.S.C. §	119(a)-(d) or (f).	
1. Certified copies of the priority docume	ents have been received.		
2. Certified copies of the priority docume	ents have been received in A	pplication No	
3. Copies of the certified copies of the p	riority documents have been	received in this National Stage	
application from the International Bure			
* See the attached detailed Office action for a l	ist of the certified copies not	received.	
Attachment(s)	<b>∧</b> □	(DTO 412)	
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	Summary (PTO-413) S)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date	08) 5) Notice of Ir 6) Other:	nformal Patent Application (PTO-152) 	

Application/Control Number: 10/511,541

Art Unit: 2812

## **DETAILED ACTION**

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-27 and 41-44, drawn to a semiconductor device (257/47+). Group II, claim(s) 28-40, drawn to a method of making a semiconductor (438/309).

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The inventive concept of Group I is depositing first insulation film over semiconductor substrate, and opening portion of the first insulation film, without requiring an opening portions of fifth insulation film and third insulation film by an etching method using a photoresist film as an etching mask. The inventive concept of Group II is depositing first insulation film over semiconductor substrate, depositing a third insulation film over the first semiconductor film, depositing a fifth insulation film over the third insulation film, opening portions of fifth and third insulation film, forming sixth insulation film over a side surface of first opening portion, forming second opening portion, and the first

Application/Control Number: 10/511,541

Art Unit: 2812

semiconductor region in the first semiconductor film are exposed, by selectively etching

a portion of the first insulation film through the first opening portion using third insulation

film and sixth insulation film as etching mask.

Applicant is advised that the reply to this requirement to be complete must

include an election of the invention to be examined even though the requirement be

traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected

invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

or more of the currently named inventors is no longer an inventor of at least one claim

remaining in the application. Any amendment of inventorship must be accompanied by

a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kyoung Lee whose telephone number is (571) 272-

1982. The examiner can normally be reached on M-F 8:30AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael S. Lebentritt can be reached on (571) 272-1873. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Page 4

Application/Control Number: 10/511,541

Art Unit: 2812

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MICHAEL LEBENTRITT

KL